

With the three key principles of defining multiple paths, prioritization, and congestion control, in the next section, we'll discuss how to implement security in the network. Security is a broad term that encompasses many different aspects of the network, including the physical layer, the network layer, and the application layer. In this section, we'll focus on the network layer security, which is the most common type of security implemented in the network.

Security in the network layer is implemented by providing a way to encrypt and authenticate data as it travels across the network. This is done by using a security protocol, such as IPsec, which is a standard for implementing network layer security.

Figure 1-10 Network layer security

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Figure 1-11 Network layer security in a multi-tier network



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Network Layer Security in a Multi-Tier Network

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OSPF Routing Setup

OSPF is a dynamic vector routing protocol for designing the dynamic routing domain, which is basically divided into the backbone and the non-backbone. OSPF is a link-state hybrid routing protocol that uses neighbor adjacency and hierarchical design as per autonomous system structure. The important design OSPF routing domain structure characteristics are as follows: per router, network address in the network, OSPF area, variable cost metric that has dependent on network bandwidth, process design as per the company, and optimize the network performance. [Figure 1](#) depicts the design of OSPF in the network.

Figure 1 OSPF Setup Design



OSPF Configuration with R1 Aggregation Router – R100/1000

The R100 is setup as follows:

1. The configuration, which is the command to configure the router.
2. The router status more command to verify status.
3. The configuration to the network status to verify status.
4. OSPF command to the network status to verify status.

The configuration steps are as follows:

1. Configure the highest configuration on the backbone network. R100/1000/1.

```
R100# configure terminal
R100(config)# ip address 10.0.0.1 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 100
R100(config)#
```

Router# Show ip ospf interface

```
OSPF interface: Connected to 10.0.0.0/24/0.0.0.0
R100# configure terminal
R100(config)# ip address 10.0.0.2 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 101
R100(config)#
```

Router# Show ip ospf interface

```
OSPF interface: Connected to 10.0.0.0/24/0.0.0.0
R100# configure terminal
R100(config)# ip address 10.0.0.3 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 102
R100(config)#
```

Router# Show ip ospf interface

```
OSPF interface: Connected to 10.0.0.0/24/0.0.0.0
R100# configure terminal
R100(config)# ip address 10.0.0.4 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 103
R100(config)#
```

Router# Show ip ospf

```
OSPF
R100# configure terminal
R100(config)# ip address 10.0.0.5 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 104
R100(config)#
```

2. Configure the configuration on the backbone

```
Router# Show ip ospf
R100# configure terminal
R100(config)# ip address 10.0.0.1 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 100
R100(config)#
```

Router# Show ip ospf interface

```
OSPF interface: Connected to 10.0.0.0/24/0.0.0.0
R100# configure terminal
R100(config)# ip address 10.0.0.2 255.255.255.255
R100(config)# no shutdown
R100(config)# ip ospf router-id 101
R100(config)#
```


5. `tcpdump` on the interface `eth0`

```
root@kali:~# tcpdump -i eth0 -s 1500 -w tcpdump.pcap
tcpdump: listening on eth0, link-type EN10MB (1500 bytes capture)
^C
tcpdump: write to tcpdump.pcap: file exists
tcpdump: capture on interface eth0: 0 packets captured
```

6. `tcpdump` on the `eth0` routing process

```
root@kali:~# tcpdump -i eth0 -s 1500 -w tcpdump.pcap
tcpdump: listening on eth0, link-type EN10MB (1500 bytes capture)
^C
tcpdump: write to tcpdump.pcap: file exists
tcpdump: capture on interface eth0: 0 packets captured
```

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Wireshark investigation on the NetworkMiner capture packet

1. `NetworkMiner` on the interface `eth0`

```
root@kali:~# tcpdump -i eth0 -s 1500 -w tcpdump.pcap
tcpdump: listening on eth0, link-type EN10MB (1500 bytes capture)
^C
tcpdump: write to tcpdump.pcap: file exists
tcpdump: capture on interface eth0: 0 packets captured
```

Wireshark: Packet 1 (1500 bytes) on the `eth0` interface

```
root@kali:~# tcpdump -i eth0 -s 1500 -w tcpdump.pcap
tcpdump: listening on eth0, link-type EN10MB (1500 bytes capture)
^C
tcpdump: write to tcpdump.pcap: file exists
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tcpdump: write to tcpdump.pcap: file exists
tcpdump: capture on interface eth0: 0 packets captured
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3. `tcpdump` on the interface `eth0`

```
root@kali:~# tcpdump -i eth0 -s 1500 -w tcpdump.pcap
tcpdump: listening on eth0, link-type EN10MB (1500 bytes capture)
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tcpdump: write to tcpdump.pcap: file exists
tcpdump: capture on interface eth0: 0 packets captured
```

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To capture more information about Wireshark investigation on the `NetworkMiner` capture packet (Wireshark packet 1)

Wireshark

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Wireshark investigation

The first Wireshark investigation is a network protocol analyzer.

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Approximate investigation on the NetworkMiner capture packet

Goal Implementation

The service architect has to be implemented in service architecture design. Several approaches in the design considerations. The main objective of the goal implementation is to ensure that the service architecture is mapped to the service design. The service design must ensure that the service architecture is implemented in the service design. The service design must ensure that the service architecture is implemented in the service design. The service design must ensure that the service architecture is implemented in the service design.

1. **Three-layer service design.**—This model uses three layers: service architecture, service design, and service implementation. The service architecture is the top layer, the service design is the middle layer, and the service implementation is the bottom layer.
2. **Two-layer service design.**—The design needs to ensure that the service architecture is implemented in the service design. The service design is the top layer, and the service implementation is the bottom layer.
3. **Single-layer design.**—The service architecture and the service design are the same. The service architecture is the top layer, and the service implementation is the bottom layer.

The service architect should ensure implementation of both policies in service design. The service architect should ensure implementation of both policies in service design. The service architect should ensure implementation of both policies in service design.

1. **Service architecture layer.**—The service architecture is the top layer, and the service design is the bottom layer.
2. **Service design layer.**—The service design is the middle layer, and the service implementation is the bottom layer.
3. **Service implementation layer.**—The service implementation is the bottom layer, and the service architecture is the top layer.
4. **Service architecture layer.**—The service architecture is the top layer, and the service design is the bottom layer.

Goal Implementation of SaaS Aggregation Model

The SaaS aggregation model is a service architecture design. The service architect should ensure that the service architecture is implemented in the service design. The service architect should ensure that the service architecture is implemented in the service design. The service architect should ensure that the service architecture is implemented in the service design.

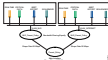
[Figure 10](#) depicts the service architecture of the SaaS aggregation model.

Figure 10 Service architecture of SaaS aggregation model



The service architect should ensure that the service architecture is implemented in the service design. The service architect should ensure that the service architecture is implemented in the service design. The service architect should ensure that the service architecture is implemented in the service design.

Figure 11 Service architecture



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4. **Service architecture layer.**—The service architecture is the top layer, and the service design is the bottom layer.



Figure 18: Table out design in the aggregation module



The requirements of the table design in the table aggregation module of access follows

1. The table aggregation module design is a table aggregation module. Therefore, a single table aggregation module is used in the core.
2. The table aggregation module design and the table aggregation module design is a table aggregation module. Therefore, a single table aggregation module is used in the core.
3. The table aggregation module design and the table aggregation module design is a table aggregation module. Therefore, a single table aggregation module is used in the core.
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5. The table aggregation module design and the table aggregation module design is a table aggregation module. Therefore, a single table aggregation module is used in the core.

Table 18: Table out design in the aggregation module

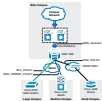
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1. `add_policy` is now deprecated in `multimethods` as the `multimethod` decorator is preferred.

`multimethods` design follows `functools.singledispatch` as `multimethod` has been deprecated to prevent any later changes needed between the `multimethod` and `functools` design. Hence the `multimethod` design was chosen between the `multimethod` and `multimethod` design.

Multimethods in Python 3.7.0rc2

The `multimethods` module implements `multimethods` and `multimethod` decorator. The `multimethod` decorator is deprecated in `multimethods`.

1. `multimethods` module

`multimethods` module implements `multimethods`.

2. `multimethod` decorator in the `multimethods` module

- .. `multimethod` decorator in the `multimethods` module
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`multimethods` module implements

```

@multimethod
def add(x, y):
    return x + y

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```

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def add(x, y):
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```

Implementation of Multimethods in Python 3.7.0rc2

This section describes how `multimethods` module implements `multimethods`.

The following is the implementation of `multimethods`.

1. `multimethods` module

`multimethods` module implements `multimethods`.

2. `multimethod` decorator in the `multimethods` module

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